Muhammad Irfan Syafi bin Zaharuddin

Kuala Lumpur | LinkedIn | https://www.irfansyafi.com | +60163351609 |
muhammadirfansyafi@gmail.com

WORK EXPERIENCE

AI Engineer | Userdata Sdn Bhd, Kuala Lumpur　　　　　　*October 2024 - February 2025*
- Managed and optimized data assets using MySQL and MongoDB ensuring data integrity and efficiency.
- Maintained ERD to streamline database operations.
- Built and maintained endpoints using FastAPI and MySQL for AI-driven applications.
- Developed AI agents using LLMs, integrating MySQL for structured data and embedded data using embedding models into vector databases such as ChromaDB and Qdrant for vector search.

Junior Metocean Engineer / Analyst | Petronas, Kuala Lumpur　　　*October 2023 - October 2024*
- Built an in-house analysis desktop application, increasing team productivity by 30% including CI/CD pipeline using Github Actions.
- Built and maintained ETL processes to track seismic activities and visualization on PowerBI
- Develop Monte Carlo Simulations for Extreme Value Analysis and present analysis results to stakeholders.
- Perform calculations techniques for hindcast and measurement data including developing metocean criteria for Explorations.
- Proof of Concept on Time Series Weather Forecasting using Deep Learning techniques by leveraging PyTorch and Tensorflow.
- Involved in internal Citizen Data Analytics Hackathon leveraging Microsoft Azure Services.

Information Systems Intern & IT Support | Panasonic, Selangor　*September 2022 - January 2023*
- Utilized Visual Basic (VB) programming and SQL Script in Excel to automate payroll monthly reports from Microsoft SQL Server.
- Created clear and concise System Requirement Specification (SRS) and User Acceptance Testing (UAT) documents for the user.
- Provided technical support to employees, trouble and software issues and resolving issues quickly to minimize downtime.
- Experience in automating software removal using Powershell scripting and terminal prompt.

PROJECT AND SIDE PROJECTS

- Sentiment Analysis in Employee Satisfaction in a Company
  - Conducted ETL processes for secondary data obtained publicly by utilizing web scraping techniques and Python.
  - Applied machine learning techniques such as Naive Bayes, Support Vector Machine and Random Forest to classify the polarity of the sentiments using RapidMiner tools and display findings in a dashboard using PowerBI.
- Image Scenery Recognition using Convolutional Neural Network (CNN).
  - Developed CNN architecture using Tensorflow framework and achieved 77% accuracy in prediction of the scenery.
- Airplanes Flight: International Economic Recovery (AFIER)
  - Conducted data preprocessing, cleaning and visualization using Power BI for the Malaysian Data Innovation Talent using public source dataset.
- Credit Scoring Fuzzy Logic System
  - Developed a fuzzy system to determine the credibility of a small and medium businesses in handling their loan based on credit scores.
- Forest API
  - Develop RESTful APIs using FastAPI and integrating AWS Athena for interactive and efficient querying data.

- Telegram Bot for Daily Blood Donation Info
  - o ETL from https://github.com/MoH-Malaysia to get the daily data of blood donations in Malaysia. Analyze the data and send the information through Telegram API into a personalized group.
  - o Repositories are available here: https://github.com/irfansyafi/malaysia_blood_donation
- Deploying Streamlit Application
  - o Containerized using Docker and self-hosted the application in Ubuntu virtual machine.

TECHNICAL SKILLS

- Databases - Microsoft SQL Server, MySQL, MongoDB
- Vector Databases - Qdrant, ChromaDB
- Programming Languages - Visual Basic, SQL, Python
- Python Packages & Frameworks - Numpy, Pandas, FastAPI, Streamlit, PyTorch, Tensorflow
- Cloud Services - Azure, AWS (Athena)
- DevOps, CI/CD & Deployment Tools - Docker, Github Actions, Linux
- Data Engineering - Web Scraping, ETL processes
- Data Visualization - Microsoft PowerBI

AWARDS AND ACHIEVEMENTS

- Focused Recognition from PETRONAS - Citizen Data Analytics Hackathon
- Vice Chancellor Award - Dean's Award for every Semester
- Shortlisted as the Top 30 teams in Malaysian Data Innovation Talent 2021
- Received JPA MARA Scholarship

CERTIFICATES

- Microsoft Certified: Azure AI Engineer Associate
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Fundamentals
- Microsoft Office Specialist: Excel Associate (Office 2019)

EDUCATION

Universiti Teknologi MARA (UiTM)   **Selangor**
Bachelor Of Information Systems (Hons.) Intelligent Systems Engineering
(CGPA: 3.64)   *September 2019 - March 2023*

Universiti Teknologi MARA (UiTM)   **Selangor**
Foundation in Engineering (CGPA: 3.33)   *September 2018 - May 2019*

REFERENCES

Sabilah Margirizki
Lead Data Scientist
WP Kuala Lumpur
Tel: +62 878-7232-8982
Email: sabilah.m@userdata.tech

En. M Nasir b Abdullah A
Principal/Head of Metocean
Civil and Structural
Group Technology Solution
WP Kuala Lumpur
Tel : +6012-3497820
Email : mnasir_abdullah@petronas.com.my

Pn Nur Azura binti Mohd Anuar
Internship Supervisor
Panasonic Manufacturing Malaysia Berhad
Shah Alam, Selangor
Tel : 03-5891 5281
Email : nurazura.anuar@my.panasonic.com

Dr. Azlin binti Ahmad
Academic Advisor
Faculty of Computer and Mathematical
Sciences, Universiti Teknologi MARA
Tel : +60122596948
Email : azlin121@uitm.edu.my